

**FINAL  
2009 ENVIRONMENTAL COMPLIANCE SURVEY**

*for*



**FEDERAL BUREAU OF PRISONS  
FEDERAL CORRECTIONAL INSTITUTION  
1600 INDUSTRIAL ROAD  
BEAVER, WV 25831**

*Prepared for:*

**FEDERAL BUREAU OF PRISONS  
320 FIRST STREET, NW  
WASHINGTON, DC 20534**

*Prepared by:*



**Green Reviews, Inc.**

**169 Ames Avenue  
Leonida, NJ 07605-2001**

**NOVEMBER 2009**



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### **DISCLAIMER**

This report represents a 'snap-shot' of the facility's compliance with environmental regulations at the federal, state and local levels. Only readily available information was reviewed to evaluate the facility's compliance with environmental regulations. Since facility activities differ on a day-to-day basis, this report is only representative of activities seen or reviewed on the day the environmental audit was conducted. Extensive or detailed review of facility records was not performed as part of this environmental audit.

## **EXECUTIVE SUMMARY**

The Bureau of Prisons (BOP) environmental compliance surveys for facilities in West Virginia are being performed as part of Consent Order with the US Environmental Protection Agency to identify environmental issues in need of attention. BOP tasked Green Reviews with conducting an environmental compliance survey at the Federal Correctional Institution (FCI) Beckley, WV on September 10 and 11, 2009. The Green Reviews team consisted of Amelia Janisz who was assisted by Mr. Chiles Day, BOP Facility Manager and Mr. James Pitt, BOP Safety Manager. The areas at the facility reviewed during the audit included the buildings, the warehouses, the underground and aboveground storage tanks, and the UNICOR factory which assembles chairs.

The environmental compliance survey identified 4 noncompliance findings with federal, state, or local regulations.

- Potential used oil discharge to sanitary sewers
- Incomplete Spill Prevention Control and Countermeasure (SPCC) Plan
- Improper disposal/storage/characterization of hazardous wastes
- Incomplete Tier II form

In addition, there were three Best Management Practices recommended. Approximately 94% of environmental activities at the FCI Beckley, WV were in compliance with federal, state and local environmental regulations (Attachment A). The facility had a number of proactive environmental activities including:

- A formal recycling program is in place for cardboard, white paper, No. 2 plastics, No.10 tin cans, dental amalgam, used fluorescent bulbs, used batteries, scrap metal and used oil.
- Used vegetable oil is sent offsite to other BOP facilities for use as biodiesel fuels.
- The BOP employee in charge of the underground storage tanks (USTs) keeps excellent records on monthly inspections, repairs, and required tests. All UST sumps/manholes are clean and dry, and all equipment is checked and maintained on a routine basis to ensure proper functioning.

## SECTION 1.0 – INTRODUCTION

### 1.1 Facility Overview

FCI Beckley is located at 1600 Industrial Road in Beaver, WV. The area surrounding the site is undeveloped. The facility complex consists of three housing units for medium security inmates, a camp for low security inmates, warehouses, powerhouse, an active outdoor firing range, various storage and training buildings and the UNICOR factory. The UNICOR (Federal Prison Industries) facility located at FCI Beckley assembles chairs.

Table 1-1 shows the activities and operations at the various buildings located at FCI Beckley, WV. The facility was constructed from 1993 to 1995, so there is no asbestos or lead-based paint at the facility.

Table 1-1 ACTIVITIES/OPERATIONS AT FCI BECKLEY, WV		
<b>Low Security Prison Camp</b>	<b>Regulated Activities</b>	<b>Wastes</b>
• Housing Units	-	Wastewater, general trash
• Food Services	Grease trap, used vegetable oil generation	Wastewater, used vegetable oil, cardboard
• Health Services Clinic	Infectious medical wastes	Infectious medical wastes
• Recreation	-	-
<b>Outside Medium Security Facility</b>		
• Administration	-	-
• Staff Training Center	-	-
• UNICOR Warehouse	Used oil, used antifreeze, new oil storage	Used oil, used antifreeze, used tires
• Food Services Warehouse	Refrigerators, freezers containing less than 50 lbs of refrigerants	Cardboard
• Powerhouse	Chillers, emergency generators, boilers	Used oil, rags, used oil filters
• Powerhouse Storage	-	-
• Firing Range (Active)	Firing guns	Lead emissions
• Garage/Recycling Area	Vehicle washing, parts cleaning (aqueous), oil/water separator, vehicle maintenance, regulated pesticide storage	Used oil, rags, used oil filters, used antifreeze, oil/water separator sludge, scrap metal
• Underground Storage Tanks (5)	Storage of petroleum products	-
• Onsite Fueling Station	On road vehicle fueling	-
<b>Medium Security Facility</b>		
• Housing Unit No. A1	-	Wastewater, general trash
• Housing Unit No. A2	-	Wastewater, general trash
• Housing Unit No. A3	-	Wastewater, general trash
• Recreation	-	-
• Health Services Unit	Pharmaceutical chemicals, infectious medical wastes	P- and U- listed wastes, infectious medical wastes
• Educational and Vocational Training	-	-
• UNICOR Factory	-	Plastics, fabric
• Laundry	-	Wastewater
• Commissary	-	-
• Food Services	Grease trap, used vegetable oil	Wastewater, used vegetable oil, cardboard
• Shops – Electrical, Refrigeration, Paint & Universal Waste, Carpenter	Universal wastes generation – used fluorescent and other HID lights, batteries	Universal wastes

## 1.2 Major Regulated Operations/Activities

FCI Beckley has the following major regulated operations/permits:

1. West Virginia Department of Environmental Protection (WVDEP) Permits for Construction, Modification, Relocation and Operation of Stationary Sources of Air Pollutants, Notification Requirements, Temporary Permit, General Permit, and Procedures for Evaluation Air Permit #R13-2170 Effective August 16, 1999.

The permit includes:

- Six boilers
- Two emergency generators
- Five hot water heaters

The Title V permit submitted under this permit was renewed for the period July 1, 2009 to June 30, 2010. Copies of the Certified Emissions Statement were reviewed, and yearly emissions from the facility are minimal (1.32 TPY of NO<sub>x</sub>, 0.07 TPY of VOCs, and 1.11 TPY of CO). A copy of the permit is included in Attachment A.

2. Spill Prevention, Control and Countermeasure (SPCC) Plan. FCI Beckley has a SPCC plan developed for the facility in June 2009 by Aarcher. The SPCC has been distributed to all pertinent staff and initial training and monthly inspections for July, August and September have been performed. The plan is not complete since there is additional generator and a hydraulic oil elevator reservoir that should be included. The plan is currently undergoing revision. Additionally, various parts of the plan will also be difficult to implement. Table 1-2 shows a list of the oil containing equipment with a capacity greater than 55 gallons or more at FCI Beckley.
3. Conditionally Exempt Small Quantity Generator (CESQG). As a CESQG, the facility does not have a Hazardous Waste Generator EPA ID Number. FCI Beckley received a Compliance Evaluation Inspection by the WV Department of Environmental Protection Environmental Enforcement – Hazardous Waste on December 17, 2008. No areas of non-compliance were documented during the inspection.

However, during the environmental compliance survey, the following was observed:

- In the Paint Shop in the Facilities Management Area, a ¼ full 1-gallon paint can of Ultra Lutex Low Lustre paint was found in a trash can.
- In the Federal Prison Camp, the clinic previously used a standard X-ray machine. The machine was abandoned in place approximately three years ago when the main clinic in the Federal Correctional Institute switched to digital X-rays. The silver recovery unit associated with this machine was not sent for reclamation or disposal. It was not possible to determine whether the machine contained liquids used for X-ray development.
- In Central Plant 1 (CP-1), an old unused sandblasting machine containing used sand was observed. The sand is often contaminated with lead and chromium from the metal parts.

Hazardous waste characterization has not been done for the sandblast. Complete decommissioning and proper characterization/disposal of any wastes associated with the old X-ray machine has not been done. Liquid paints cannot be disposed of in the general trash.

4. Wastewater. FCI Beckley discharges wastewater to the City of Beckley Waste Water Treatment Plant (WWTP) Utility Board via an informal agreement. No issues or exceedances were reported by the facility. The facility has two grease traps (10,000 gallon at the FCI and 5,000 gallon at the prison camp) that are inspected regularly and cleaned out annually per an agreement with the City of Beckley WWTP. The City last inspected the grease traps on August 2008 and determined that an annual clean-out for the grease traps is appropriate. The facility has maintained manifests dating back to 2004 showing proper disposal of the clean-outs.

The Garage has an oil/water interceptor separator. Because of low usage of the wash bay area (less than 50 vehicles per year are washed in the wash bay), there has been no significant accumulation of oil, and the interceptor has not been cleaned out. The interceptor has a discharge pipe that is supposed to empty used oil into the used oil underground storage tank. The actual placement and correct operation of discharge piping to the used oil underground storage tank and the City of Beckley's sanitary sewer could not be verified either through direct observation or review of drawings.

5. Ozone Depleting Substances. FCI Beckley has four large chillers located at the two powerhouses containing over 50 lbs. of R-123A and R-22. The facility lost 600 lbs of R-123 from Central Plant 1 – Chiller No. 2 on 5/18/06. A leak rate calculation was done on this machine (59%), and service orders from the outside contractor indicated that the machine was “working great” after repairs. Specific information such as “leak tested tight” was not available on the service order. At Central Plant 2 – Chiller No. 1 also on 5/18/06 lost its entire charge of 490 lbs. of R-22. No invoices or service orders were available for review on this machine although it was reported leak tested before being placed into operation and recharged. One invoice from an outside contractor specifying leak repairs was available from 7/17/07, and another was located from 2008. Lack of records made it difficult to determine whether appropriate maintenance/repairs have been made to the regulated chillers. Table 1-3 shows a list of the refrigeration equipment with a capacity over 50 lbs.

6. Underground Storage Tanks (USTs). The facility has five (5) USTs:

- 1-1,000 gallon used oil UST
- 1-15,000 gallon gasoline UST
- 3-20,000 diesel USTs

Three USTs: used oil, gasoline and one diesel are regulated under 40 CFR 280 and WV Code 33-30. The other two USTs supply diesel for the boilers are regulated under 40 CFR 112. All tanks are double-walled fiberglass. The interstitial space is filled with a brine solution. Piping is also double-walled and is pressurized for all the USTs except the used oil UST.

On March 23, 2006, the US Environmental Protection Agency determined that FCI Beckley was in violation of (1) failure to conduct tank release detection for its waste oil UST, (2) failure to conduct pipe release detection, (3) failure to conduct line leak detection tests on USTs, and 4) failure to maintain overfill protection. FCI Beckley remediated all the violations and maintains records on the following:

- Continuous Statistical Leak Detection (CSLD) tests for the past 13 months
- Product level daily, and monthly reconciliations done via the stick method
- Precision line testing (last done 7/20/09)
- Tank tightness tests (last done 7/20/09 by Environmental Solutions Certification #13978)
- Repair records on the manholes (7/28/09)
- Pressure Line Leak Detection tests (9/3/09)

All USTs are tied into Gilbarco Automatic Tank Gauges (ATGs). The USTs were last inspected by the WV Department of Environmental Protection Division of Water and Waste Management Environmental Enforcement/UST Unit on 8/27/09. The inspector noted that (1) the overfill alarm should be tested for operability, (2) pressure line leak detection (PPLD) annual operability test was required, (3) interstitial monitors required an operability test, (4) certification that the used oil probe is compatible with used oil was required, (5) investigation and replacement of the alarming discriminating sensor alarm in waste oil and at gas and diesel pumps, and (6) tightness testing on spill containment buckets was required. The facility immediately contracted for PPLD tests and the required tests or certifications. All information required to be submitted to the Environmental Enforcement/UST Unit by 9/15/09 was available onsite for review during the environmental compliance survey except for documentation on the Mag1 probe in the used oil UST. However, information reported from knowledgeable sources indicated that the probe was compatible with used oil.

The current permit for the regulated USTs is included in Attachment A.

**Table 1-2**  
**OIL CONTAINING EQUIPMENT WITH A CAPACITY OF 55 GALLONS OR MORE**  
**FCI BECKLEY, WV<sup>1</sup>**

55-Gallon Steel Drums				
Location	Total Number of Drums	Contents/Number of Drums	Secondary Containment	
Garage	3	Hydraulic fluid (2), Motor oil (1)	Spill containment pallets	
Oil Filled Equipment				
Identification Number	Location	Capacity (Gallons)	Contents	Secondary Containment
Elev-1 (Hydraulic elevator)	UNICOR Factory	80	Hydraulic oil	Building
Tran-1 (Pad Mounted Transformer)	South of Camp Education Building	532	Dielectric fluid	Active secondary containment
Tran-2 (Pad Mounted Transformer)	South of Camp Education Building	523	Dielectric fluid	Active secondary containment
Tran-3 (Pad Mounted Transformer)	Northeast of Camp Maple Housing Unit	230	Dielectric fluid	Active secondary containment
Tran-4 (Pad Mounted Transformer)	East of Camp Evergreen Housing Unit	230	Dielectric fluid	Active secondary containment
Tran-5 (Pad Mounted Transformer)	East of Staff Training Facility Parking Lot	230	Dielectric fluid	Active secondary containment
Tran-6 (Pad Mounted Transformer)	North of Garage	230	Dielectric fluid	Active secondary containment
Tran-7 (Pad Mounted Transformer)	North of Garage	697	Dielectric fluid	Active secondary containment
Tran-8 (Pad Mounted Transformer)	South of Warehouse	375	Dielectric fluid	Active secondary containment
Tran-9 (Pad Mounted Transformer)	Southwest of UNICOR	523	Dielectric fluid	Active secondary containment
Tran-10 (Pad Mounted Transformer)	Southwest of UNICOR	230	Dielectric fluid	Active secondary containment
Tran-11 (Pad Mounted Transformer)	South of Special Housing Unit	375	Dielectric fluid	Active secondary containment
Tran-12 (Pad Mounted Transformer)	East of Institution Food Services	523	Dielectric fluid	Active secondary containment
Tran-13 (Pad Mounted Transformer)	South of Facilities	230	Dielectric fluid	Active secondary containment
Tran-14 (Pad Mounted Transformer)	North of Popular Housing Unit	230	Dielectric fluid	Active secondary containment
Tran-15 (Pad Mounted Transformer)	Northwest of Pine Housing Unit	230	Dielectric fluid	Active secondary containment
Tran-16 (Pad Mounted Transformer)	West of Oak Housing Unit	230	Dielectric fluid	Active secondary containment
Tran-17 (Pad Mounted Transformer)	North of Institution Administration Building	230	Dielectric fluid	Active secondary containment
Tran-18 (Pad Mounted Transformer)	West of Central Plan One (CP-1)	697	Dielectric fluid	Active secondary containment
Underground Storage Tanks				
Identification Number	Location	Capacity (Gallons)	Contents	Secondary Containment
Tank-1	West of CP-2 Building	20,000	Heating Oil (Boiler)	Double-walled tank with Gilbarco for secondary containment monitoring
Tank-2	Southeast of CP-1	20,000	Heating Oil (Boiler)	Double-walled tank with Gilbarco for secondary containment monitoring
Tank-4 (Regulated under 40 CFR 280)	Southwest of Garage	1,000	Used oil	Double-walled tank with Gilbarco for secondary containment monitoring
Tank-5 (Regulated under 40 CFR 280)	Southeast of Garage	15,000	Gasoline for BOP vehicles	Double-walled tank with Gilbarco for secondary containment monitoring

<b>Table 1-2</b> <b>OIL CONTAINING EQUIPMENT WITH A CAPACITY OF 55 GALLONS OR MORE</b> <b>FCI BECKLEY, WV<sup>1</sup></b>				
Tank-6 (Regulated under 40 CFR 280)	Southeast of Garage	20,000	Diesel for BOP vehicles	Double-walled tank with Gilbarco for secondary containment monitoring
<b>Aboveground Storage Tanks</b>				
<b>Identification Number</b>	<b>Location</b>	<b>Capacity (Gallons)</b>	<b>Contents</b>	<b>Secondary Containment</b>
Tank-3 (Day tank)	Within Garage generator room	250	Fuel oil	Steel catchment basin
NOTE 1: Spill Prevention Control and Countermeasure (SPCC) Plan dated 6/8/09, FCI Beckley, WV and onsite observations during environmental compliance survey.				

<b>Table 1-3</b> <b>REFRIGERATION EQUIPMENT WITH A CAPACITY OVER 50 LBS.<sup>2</sup></b> <b>FCI BECKLEY, WV</b>				
<b>Equipment ID</b>	<b>Location</b>	<b>Description</b>	<b>Type and Class of Ozone Destroying Substance (ODS)</b>	<b>Amount of ODS</b>
CH-CP-1-1	CP-1 Powerhouse	Centrifugal Chiller	Water R-123A, Class II	1125 Lbs.
CH-CP-1-2	CP-1 Powerhouse	Centrifugal Chiller	Water R-123A, Class II	1125 Lbs.
CH-CP-2-1	CP-2 Powerhouse	Centrifugal Chiller	Water R-22, Class II	490 Lbs.
CH-CP-2-2	CP-2 Powerhouse	Centrifugal Chiller	Water R-22, Class II	490 Lbs.
NOTE 2: FCI Beckley, WV has approximately 60 additional pieces of equipment containing less than 50 lbs of various refrigerants. This equipment includes small package units, ice machines, heat pumps, smaller refrigerators and freezers.				

### **1.3     Audit Activities**

Prior to the site visit, a pre-visit questionnaire was sent to the FCI Beckley, WV to obtain all relevant information about the facility's operations. The questionnaire included a series of inquiries pertaining to the regulatory areas being reviewed as part of the survey.

The environmental compliance survey was conducted on September 10 and 11, 2009. Green Reviews personnel began the audit with an entrance briefing on the intent of the audit and the activities that would be taking place. The following people were present for the entrance and exit briefing:

<u>Name</u>	<u>Representing</u>
D. Berkebile	Warden, FCI Beckley
D. J. Harmon	Associate Warden, FCI Beckley
Chiles Day	Facility Manager, FCI Beckley
James Pitt	Safety Manager, FCI Beckley
Gerard Weaver	Safety Specialist, FCI Beckley
Dave Farley	SOI&E, FCI Beckley
Renee Hutchings	Acting Executive Assistant, Food Service Administration, FCI Beckley
Chuck Procaccini	Chief, Facilities Program BOP
Amelia Janisz	Green Reviews

A list of the preliminary findings was provided to the BOP during the exit briefing.

An internal quality control (QC) system has been implemented for the BOP environmental compliance survey program. The quality control system includes review of internal draft reports where findings are reviewed for accuracy and completeness. A signed QC form is included in Attachment C.

## SECTION 2.0 – FINDINGS

Table 2-1 summarizes the results of the environmental compliance survey performed for FCI Beckley, WV. The table contains:

- A finding number
- The date of the finding
- A compliance category
- A brief regulatory citation from the law and regulation on which the finding was based (e.g., Clean Air Act, RCRA Subtitle C)
- Recommended corrective actions that may be required to bring the situation into compliance

The findings were categorized into the following areas:

**Priority 1:** Areas with actual or potential immediate harm to human health or the environment, potential for significant liability, or other potential to inhibit the institution from meeting its mission or the mission of the BOP. Typical findings in this category include open drums of hazardous waste or no leak-detection equipment for underground storage tanks.

**Priority 2:** Regulatory findings that are not Priority 1. These include Federal, state and local laws, regulations and applicable federal Executive Orders. Typical findings in this category include administrative or recordkeeping requirements (e.g., permits, manifests). This compliance classification could lead to administrative penalties.

**Priority 3:** Non-regulatory findings that are not Priority 1 or Priority 2.

The facility will be required to prepare a Corrective Action Plan to address these noncompliance findings.

**Table 2-1  
FINDING SUMMARY  
FEDERAL CORRECTIONAL INSTITUTE, BECKLEY, WEST VIRGINIA**

Finding Number/ Compliance Category	Finding Date	Observation	Regulatory Citation	Recommended Corrective Action	Facility Response/ Date Completed
<b>WATER POLLUTION</b>					
1/2	09/11/09	The Garage has an oil/water interceptor. The interceptor was inspected, and two pipes were noted above the current water/oil level. Original drawings for the facility were reviewed but the elevations of the pipes (draining into the interceptor, draining out of the interceptor, and draining into the used oil underground storage tank) could not be determined. It was not possible to determine if the interceptor was removing oil from the wastewater being discharged to the Beckley Wastewater Treatment Plant.	Beckley Municipal Code Chapter 9 Use of Sewers	Determine the actual construction of the oil interceptor and whether it is appropriately treating the wastewater generated by operations and activities at the garage. If it is not treating the wastewater, modify either the system or activities conducted so that oil is not discharged to the sanitary sewer.  If the facility installs a wash bay in the garage, as part of the remodeling, install a properly sized oil/water separator. The separator will have to be maintained and cleaned per the City of Beckley's municipal code similar to the grease traps at the facility (manifests, inspections, etc.)	
2/3	09/11/09	The facility performs vehicle maintenance at the garage and has outdoor diesel and gasoline fueling. There is no Stormwater Management Plan (SWMP) for the facility.  An open dumpster is located next to fueling dispensers. Dumpsters are normally covered as a Best Management Practice to prevent stormwater pollution.	Best Management Practice	USP Hazelton has contacted the WVDEP on this issue. The WDEP recommends that a Stormwater Management Plan under the 2009 Multi-Sector General Permit be developed. However, this is not currently a regulatory requirement.	
3/1	09/11/09	The Spill Prevention Control and Countermeasure (SPCC) Plan has just been completed (6/09). The following items were noted:  1. Section 6.2 should include short descriptions of the three regulated tanks. It was not clear that Tank 1 and 2 were the unregulated heating oil tanks. Tanks 1 and 2 now comply with 40 CFR 280 requirements, and this should be mentioned in the plan. 2. The plan needs to have added: <ul style="list-style-type: none"> <li>80 gallon hydraulic elevator reservoir in UNICOR factory</li> <li>1,250 gallon double-walled AST for 1250 KW mobile generator in back of garage – a new addition to the facility. If any leak detection equipment has been installed, this will have to be confirmed with the facility or manufacturer.</li> <li>3-55 gallon oil drums in storage warehouse near unused hazardous waste storage area</li> </ul>	40 CFR 112.7 47CSR58 47-58-4 Groundwater Protection Practices For Industrial Establishments. 4.8	Since the facility is planning on revising the plan to add the new double-walled AST for the new generator, work with the PE who will be rewriting the plan to incorporate additional changes. Review the plan carefully to ensure that Beckley can implement all inspections and other requirements that the plan requires.  For the 1,000 gallon single-walled diesel mobile AST that accompanied the new generator, blank flange the pipes and mark the AST as "Empty".  Replace the rusting single-walled aboveground pipes running to the generators and boilers.	

**Table 2-1**  
**FINDING SUMMARY**  
**FEDERAL CORRECTIONAL INSTITUTE, BECKLEY, WEST VIRGINIA**

Finding Number/ Compliance Category	Finding Date	Observation	Regulatory Citation	Recommended Corrective Action	Facility Response/ Date Completed
		<p>3. Page 13. Note that transformers problems are usually detected by fluctuating power currents rather than complete loss of power.</p> <p>5. Section 7.2 This section needs to mention that the facility will comply with the WV Groundwater Protection Plan requirements including secondary containment for all ASTs and Best Management Practices (BMPs).</p> <p>6. Page 16. Integrity testing. If the USTs comply with 40CFR 280, this testing is unnecessary. External inspections cannot be done on USTs. For Tank 3, the Steel Tank Institute SP-001, 4<sup>th</sup> Edition will provide an applicable and appropriate schedule for shop-built ASTs.</p> <p>7. Page 24. This transformer spill goes to Piney Creek, but the table indicates nothing is discharged from property.</p> <p>8. The figures should either indicate the piping or reference the engineering technician's maps which identify the piping are found.</p> <p>9. Monthly Inspection Checklists:</p> <ul style="list-style-type: none"> <li>• ASTs – Interstitial leak detectors, dead vegetation are mentioned. These are currently not found near the existing AST. See Item 2 above for the new AST associated with the new generator.</li> <li>• Hoses and dispensers – These are associated with the regulated tanks and not otherwise mentioned in plan.</li> <li>• USTs – The interstitial monitor tapes will be kept at the garage. This is the facility's customary business practice.</li> </ul> <p>10. Annual Inspection Checklist:</p> <ul style="list-style-type: none"> <li>• Inspections of double walled tank equipped with interstitial monitor are required. The new generator should be checked to determine if this would apply.</li> </ul> <p>11. In the garage, in CP-1, in CP-2, rusting 1 inch diameter pipes run in pipe trenches from the USTs to the boilers or day tank. These pipes have been exposed to atmospheric corrosion for 15 years and are rusting badly.</p>			

**Table 2-1  
FINDING SUMMARY  
FEDERAL CORRECTIONAL INSTITUTE, BECKLEY, WEST VIRGINIA**

<b>Finding Number/ Compliance Category</b>	<b>Finding Date</b>	<b>Observation</b>	<b>Regulatory Citation</b>	<b>Recommended Corrective Action</b>	<b>Facility Response/ Date Completed</b>
4/3	09/11/09	Facility has not developed and implemented a Groundwater Protection Plan.	Best Management Practice	USP Hazelton contacted the WVDEP on this issue. The WDEP recommends that a Groundwater Protection Plan be developed. However, this is not currently a regulatory requirement.	
<b>HAZARDOUS/UNIVERSAL WASTE</b>					
5/1	09/11/09	<p>1. In the Paint Shop in the Facilities Management Area, a ¼ full 1-gallon paint can of Ultra Lutex Low Lustre paint was found in a trash can.</p> <p>2. In the Federal Prison Camp, the clinic previously used a standard X-ray machine. The machine was abandoned in place approximately three years ago when the main clinic in the Federal Correctional Institute switched to digital X-rays. The silver recovery unit associated with this machine was not sent for reclamation or disposal. It was not possible to determine whether the machine contained liquids used for X-ray development.</p> <p>3. In Central Plant 1 (CP-1), an old unused sandblasting machine containing used sand was observed. The sand is often contaminated with lead and chromium from the metal parts.</p>	40 CFR 262	<p>1. Review with the shop supervisors and employees prohibitions against disposal of paints in the general trash. Determine why the paint was disposed of and whether development of a Standard Operating Procedure (SOP) and training of inmates on proper storage and disposal procedures is required.</p> <p>2. Remove the silver recover unit and recycle/reclaim the silver. Determine whether the machine contains any old unused chemicals. If the machine contains unused photographic chemicals, properly dispose of them.</p> <p>3. Characterize the used sand for metal contamination and dispose of the waste appropriately.</p>	
<b>UNDERGROUND STORAGE TANKS</b>					
6/3	09/11/09	<p>The Gilbarco monitoring system for the gasoline underground storage tank is reading 0.82 inches of water. The lead supervisor for the garage reports that the tank trucks delivering gasoline to the facility are also used for delivering E85 to other customers.</p> <p>E85 is hydrophilic and may be causing the water accumulation. E85 will also cause deterioration of USTs not designed to contain it. The facility is planning on removing water from the UST when it reaches 1.5 inches.</p>	Best Management Practice	<p>Due to the potential for the E85 contamination to cause UST deterioration – particularly to aluminum parts, the facility should contact the tank manufacturer to inquire if additional inspections of the tank should be conducted.</p> <p>Similar to checking for corrosion at large (greater than 100,000 gallon) aboveground storage tanks, suspending 'coupons' at the bottom of the tank and regularly examining them for deterioration may be useful.</p>	
<b>EMERGENCY PLANNING AND COMMUNITY RIGHT-TO-KNOW</b>					
7/2	09/11/09	The facility has filed a Tier II form for gasoline and diesel. The facility stores a large quantity of road salt and buys over 10 tons per year of road salt. The salt is mixed with abrasive number 9 in an open shed for the winter season. The salt is not included on the Tier II form.	40 CFR 370.10, 370.40, 370.41, 370.42, 370.44, 370.45, 370.61, 355	File an amended Tier II form including the road salt stored at the facility.	

**NOTES:** CFR = Code of Federal Regulations, CSR = West Virginia Code of State Regulations

# **ATTACHMENT A**

## **REGULATORY REPORT AND PERMITS**



STATE OF WEST VIRGINIA  
DIVISION OF WATER AND WASTE MANAGEMENT  
ENVIRONMENTAL ENFORCEMENT

UNDERGROUND STORAGE TANK FACILITY  
CERTIFICATE PROGRAM

Owner

FEDERAL CORRECTIONAL INSTITUTION  
PO BOX 1280  
ATTN: ANTOINETTE ERICKSON  
BEAVER, WV 25813

Facility 4-107241

FEDERAL CORRECTIONAL INSTITUTION  
PO BOX 1280  
1600 INDUSTRIAL PARK RD  
BEAVER, WV 25813

This certifies that FEDERAL CORRECTIONAL INSTITUTION facility has been duly registered with the State of West Virginia and the tank registration and capitalization fees have been remitted.

CERTIFICATION STATUS :

STATUS: FULL

This certificate effective July 01, 2009 and expires June 30, 2010.

TO THE CARRIER: THE FACILITY LISTED ABOVE IS IN COMPLIANCE WITH 33-31 AND 33-32-5 OF THE WEST VIRGINIA UNDERGROUND STORAGE TANK RULE.

The following tank(s) have been duly registered at this facility:

TANK NO.	STATUS	DESCRIPTION	SUBSTANCE STORED
1	Currently in Use	15000 Fiberglass Reinforced Plastic Tank Mod (Sec. Tank Option Gasoline	
2	Currently in Use	20000 Fiberglass Reinforced Plastic Tank Mod (Sec. Tank Option Diesel	
3	Currently in Use	1000 Fiberglass Reinforced Plastic Tank Mod (Sec. Tank Option Used Oil	



Office of Air Quality  
1558 Washington Street, East  
Charleston, WV 25311-2599  
Telephone Number: (304) 558-0885  
Fax Number: (304) 558-1222

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## West Virginia Division of Environmental Protection

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Cecil H. Underwood  
Governor

Michael C. Castle  
Director

August 16, 1999

CERTIFIED MAIL  
P 112 256 018

Mr. Don Lewis  
Federal Correctional Institution  
P. O. Box 1280  
Beaver, WV 25813

Re: Federal Correctional Institution  
Beaver, WV  
Permit No. R13-2170  
Plant ID No. 08100148

Dear Mr. Lewis:

Your application for a permit as required by Section 4 of 45CSR13 - "Permits for Construction, Modification, Relocation and Operation of Stationary Sources of Air Pollutants, Notification Requirements, Temporary Permit, General Permit, and Procedures for Evaluation" has been approved. The enclosed permit R13-2170 is hereby issued pursuant to Subsection 4.5 of 45CSR13. Please be aware of the notification requirements in the permit which pertain to commencement of construction, modification, or relocation activities; startup of operations; and suspension of operations.

Should you have any questions or comments, please contact me at (304) 558-0885.

Sincerely,

Carrie D. McCumbers  
Permit Engineer

Enclosures



Office of Air Quality  
1558 Washington Street, East  
Charleston, WV 25311-2599  
Telephone Number: (304) 558-0885  
Fax Number: (304) 558-1222

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## West Virginia Division of Environmental Protection

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Cecil H. Underwood  
Governor

Michael P. Miano  
Director

### PERMIT TO CONSTRUCT Six Boilers, Two Emergency Generators, and Five Hot Water Heaters

IN ACCORDANCE WITH THE WEST VIRGINIA AIR POLLUTION CONTROL LAW (W. Va. Code §§22-5-1 et seq.), AND REGULATIONS PROMULGATED THEREUNDER, THE FOLLOWING PERMITTEE IS AUTHORIZED TO CONSTRUCT, SUBJECT TO THE TERMS AND CONDITIONS OF THIS PERMIT, THE SOURCE DESCRIBED BELOW.

This permit has no impact on any existing permits.

Name of Permittee: Federal Correctional Institution

Permit No.: R13-2170

Plant ID No.: 08100148

Effective Date of Permit: August 16, 1999

Permit Writer: Carrie D. McCumbers

Facility Mailing Address: P. O. Box 1280  
Beaver, WV 25813

County: Raleigh County

Nearest City or Town: Beaver, WV

UTM Coordinates: Easting: 489.1 km      Northing: 4,184.1 km      Zone: 17

Directions to  
Exact Location: Exit I-64 and go north on Airport Road to Industrial Park Drive.  
Turn left on Industrial Park Road and go approximately 3.2 miles.

Type of Facility  
or Modification: After-the-fact construction of three 12.6 MMBtu/hr boilers (BCP1-1, BCP1-2, BCP1-3), three 2.1 MMBtu/hr boilers (BCP2-1, BCP2-2, BCP2-3), two emergency generators (G-001, G-002) and five hot water heaters (HCP1-1, HCP1-2, HCP1-3, HCP2-1, HCP2-2).

AS A RESULT OF GRANTING OF THIS PERMIT, THE SOURCE IS SUBJECT TO 45CSR30. THE TITLE V (45CSR30) APPLICATION WILL BE DUE WITHIN TWELVE (12) MONTHS AFTER THE DATE OF THE COMMENCEMENT OF THE OPERATION OR ACTIVITY (ACTIVITIES) AUTHORIZED BY THIS PERMIT, UNLESS GRANTED A DEFERRAL OR EXEMPTION BY THE DIRECTOR FROM SUCH FILING DEADLINE PURSUANT TO A WRITTEN REQUEST FROM THE PERMITTEE.

IN ACCORDANCE WITH THE PERMIT APPLICATION AND ITS AMENDMENTS, THIS PERMIT IS LIMITED AS FOLLOWS:

## A. SPECIFIC REQUIREMENTS

1. The maximum fuel consumption shall not exceed the following:

Source ID No.	Natural Gas Usage		No. 2 Fuel Oil Usage	
	scf/hr	scf/yr	gal/hr	gal/yr
12.6 MMBtu/hr Boiler BCP1-1	12,600	110,376,000	90	45,000
12.6 MM Btu/hr Boiler BCP1-2	12,600	110,376,000	90	45,000
12.6 MM Btu/hr Boiler BCP1-3	12,600	110,376,000	90	45,000
2.1 MM Btu/hr Boiler BCP2-1	2,100	18,396,000	15	7,500
2.1 MMBtu/hr Boiler BCP2-2	2,100	18,396,000	15	7,500
2.1 MMBtu/hr Boiler BCP2-3	2,100	18,396,000	15	7,500
Emergency Generator G-001	—	—	50	25,000
Emergency Generator G-002	—	—	50	25,000
Hot Water Heater HCP1-1	1,357	11,887,320	9.7	4,850
Hot Water Heater HCP1-2	1,357	11,887,320	9.7	4,850
Hot Water Heater HCP1-3	1,357	11,887,320	9.7	4,850
Hot Water Heater HCP2-1	800	7,008,000	6	3,000
Hot Water Heater HCP2-2	800	7,008,000	6	3,000

2. Maximum hourly and annual emissions shall not exceed those limits listed in ATTACHMENT A.

3. The maximum sulfur content for the No. 2 fuel oil to be used shall not exceed 0.5% by weight.
4. Natural gas shall be burned as the primary fuel in the six boilers and five hot water heaters. No. 2 fuel oil shall be burned only as a back up fuel not to exceed 500 hours per year for each of the six boilers and five hot water heaters.

## **B. OTHER REQUIREMENTS**

1. In accordance with 45CSR30 - "Operating Permit Program", enclosed with this permit is a Certified Emissions Statement (CES) Invoice, from the date of initial startup through the following June 30. Said invoice and the appropriate fee shall be submitted to this office no later than 30 days prior to the date of initial startup. For any startup date other than July 1, the permittee shall pay a fee or prorated fee in accordance with the Section 4.5 of 45CSR22. A copy of this schedule may be found attached to the Certified Emissions Statement (CES) Invoice.
2. The permitted facility shall comply with all applicable provisions of 45CSR2 - "To Prevent and Control Particulate Air Pollution from Combustion of Fuel in Indirect Heat Exchangers," provided, however, that compliance with any more stringent limitation set forth under Section A of this permit shall also be demonstrated. The principal provisions of Regulation 2 applicable to the permitted facility are as follows:

§45-2-3.1.  
No person shall cause, suffer, allow, or permit emission of smoke and/or particulate matter into the open air from any fuel burning unit which is darker in shade or appearance than ten (10) percent opacity.

§45-2-3.2.  
Compliance with the visible emission requirements of subsection 3.1 of Regulation 2 shall be determined in accordance with 40 CFR Part 60, Appendix A, Method 9 (July 1, 1994) or by using measurements from continuous opacity monitoring systems approved by the Director. The Director may require the installation, calibration, and operation of continuous opacity monitoring systems and may establish policies for the evaluation of continuous monitoring results and the determination of compliance with the visible emission requirements of subsection 3.1. of Regulation 2. Compliance opacity monitors shall not be required on fuel burning units which employ wet scrubbing systems for emission control.
3. The permitted facility shall comply with all applicable provisions of 45CSR10 - "To Prevent and Control Air Pollution from the Emission of Sulfur Oxides," provided, however, that compliance with any more stringent limitation set forth under Section A of this permit shall also be demonstrated.

4. The permitted facility shall comply with all applicable provisions of 40 CFR 60, Subpart Dc - "Standards of Performance for Small Industrial-Commercial-Institutional Steam Generating Units," provided, however, that compliance with any more stringent limitation set forth under Section A of this permit shall also be demonstrated. The principal provisions of Subpart Dc applicable to the permitted facility are as follows:

§60.42c Standard for sulfur dioxides.

- (d) On and after the date on which the initial performance test is completed or required to be completed under §60.8 of this part, whichever date comes first, no owner or operator of an affected facility that combusts oil shall cause to be discharged into the atmosphere from that affected facility any gases that contain SO<sub>2</sub> in excess of 215 ng/J (0.50 lb/million Btu) heat input; or, as an alternative, no owner or operator of an affected facility that combusts oil shall combust oil in the affected facility that contains greater than 0.5 weight percent sulfur. The percent reduction requirements are not applicable to affected facilities under this paragraph.
- (h) For affected facilities listed under paragraphs (h) (1), (2), or (3) of this section, compliance with the emission limits or fuel oil sulfur limits under this section may be determined based on a certification from the fuel supplier, as described under §60.48c(f)(1), (2), or (3), as applicable.
  - (1) Distillate oil-fired affected facilities with heat input capacities between 2.9 and 29 MW (10 and 100 million Btu/hr).

§60.44c Compliance and performance test methods and procedures for sulfur dioxide.

- (h) For affected facilities subject to §60.42c (h) (1), (2), or (3) where the owner or operator seeks to demonstrate compliance with the SO<sub>2</sub> standards based on fuel supplier certification, the performance test shall consist of the certification from the fuel supplier, as described under §60.48c(f)(1), (2), or (3), as applicable.

§60.46c Emission monitoring for sulfur dioxide

- (e) The monitoring requirements of paragraphs (a) and (d) of this section shall not apply to affected facilities subject to §60.42c(h) (1), (2), or (3) where the owner or operator of the affected facility seeks to demonstrate compliance with the SO<sub>2</sub> standards based on fuel supplier certification, as described under §60.48c(f) (1), (2), or (3), as applicable.

§60.48c Reporting and record keeping requirements.

- (a) The owner or operator of each affected facility shall submit notification of the date of construction or reconstruction, anticipated startup, and actual startup, as provided by §60.7 of this part. This notification shall include:
  - (1) The design heat input capacity of the affected facility and identification of fuels to be combusted in the affected facility.
- (d) The owner or operator of each affected facility subject to the SO<sub>2</sub> emission limits, fuel oil sulfur limits, or percent reduction requirements under §60.42c shall submit quarterly reports to the Administrator. The initial quarterly report shall be postmarked by the 30th day of the third month following the completion of the initial performance test. Each subsequently quarterly report shall be postmarked by the 30th day following the end of the reporting period.
- (e) The owner or operator of each affected facility subject to the SO<sub>2</sub> emission limits, fuel oil sulfur limits, or percent reduction requirements under §60.43c shall keep records and submit quarterly reports as required under paragraph (d) of this section, including the following information, as applicable.
  - (1) Calendar dates covered in the reporting period.
  - (2) Each 30-day average SO<sub>2</sub> emission rate (ng/J or lb/million Btu), or 30-day average sulfur content (weight percent), calculated during the reporting period, ending with the last 30-day period in the quarter; reasons for any noncompliance with the emission standards; and a description of corrective actions taken.
  - (11) If fuel supplier certification is used to demonstrate compliance, records of fuel supplier certification as described under paragraph (f)(1), (2), or (3) of this section, as applicable. In addition to records of fuel supplier certifications, the quarterly report shall include a certified statement signed by the owner or operator of the affected facility that the records of fuel supplier certifications submitted represent all of the fuel combusted during the quarter.
- (f) Fuel supplier certification shall include the following information:
  - (1) For distillate oil:
    - (I) The name of the oil supplier; and
    - (ii) A statement from the oil supplier that the oil complies with the specifications under the definition of distillate oil in §60.41c.

(g) The owner or operator of each affected facility shall record and maintain records of the amounts of each fuel combusted during each day.

5. All notifications and reports required pursuant to 40 CFR 60 shall be forwarded to:

Asst. Chief of Enforcement      and  
WV DEP  
Office of Air Quality  
1558 Washington St. E.  
Charleston, WV 25311-2599

Director of Air Protection Division  
US Environmental Protection Agency  
Region III  
841 Chestnut Building  
Philadelphia, PA 19107

6. For the purpose of determining compliance with the maximum allowable fuel usage rates set forth in SPECIFIC REQUIREMENT A.1 and the maximum allowable hourly and annual emission limits set forth in SPECIFIC REQUIREMENT A.2, the facility shall maintain monthly and annual records of natural gas and No. 2 fuel oil usage (ATTACHMENTS C and D). These records shall be certified by a Responsible Official and maintained on site for a period of five years. These records shall be made available to the Chief or his duly authorized representative upon request.
7. The permitted facility shall comply with the attached "Policy on Regulations 2 and 10 Record Keeping and Reporting Requirements." (ATTACHMENT B)
8. The permitted facility shall maintain records of the fuel quality of the No. 2 fuel oil and natural gas. Information contained in these records shall include the ash, sulfur, moisture, volatile matter, and Btu content and shall be provided by the fuel supplier. These records shall be maintained on site and made available to the Chief or his duly authorized representative upon request.
9. The pertinent sections of 45CSR13 applicable to this facility include, but are not limited to, the following:

§45-13-5.1

At the time a stationary source is alleged to be in compliance with an applicable emission standard and at reasonable times to be determined by the Chief thereafter, appropriate tests consisting of visual determinations or conventional in-stack measurements or such other tests as the Chief may specify shall be conducted to determine such compliance.

§45-13-8.2

The Chief may suspend or revoke a permit if, after six (6) months from the date of issuance, the holder of the permit cannot provide the Chief, at the Chief's request, with written proof of a good faith effort that construction, modification, or relocation, if applicable, has commenced. Such proof shall be provided not later than thirty (30) days after the Chief's request. If construction or modification of a stationary source is discontinued for a period of eighteen (18) months or longer, the Chief may suspend or revoke the permit.

### §45-13-8.3

The Chief may suspend or revoke a permit if the plans and specifications upon which the approval was based or the conditions established in the permit are not adhered to.

## C. GENERAL REQUIREMENTS

1. In accordance with 45CSR30 - "Operating Permit Program", the permittee shall not operate nor cause to operate the permitted facility or other associated facilities on the same or contiguous sites comprising the plant without first filing a Certified Emissions Statement (CES) and paying the appropriate fee. Such Certified Emissions Statement (CES) shall be filed and the appropriate fee paid annually. A receipt for the appropriate fee shall be maintained on the premises for which the receipt has been issued, and shall be made immediately available for inspection by the Chief or his/her duly authorized representative.
2. Approval of this permit does not relieve the permittee herein of the responsibility to apply for and obtain all other permits, licenses, and/or approvals from other agencies; i.e., local, state, and federal, which may have jurisdiction over the construction and/or operation of the source(s) and/or facility herein permitted.
3. The permitted facility shall be constructed and operated in accordance with information filed in Permit Application R13-2170 and any amendments thereto. The Chief may suspend or revoke a permit if the plans and specifications upon which the approval was based are not adhered to.
4. At such reasonable time(s) as the Chief may designate, the permittee shall conduct or have conducted test(s) to determine compliance with the emission limitations established in the permit application and/or applicable regulations. Test(s) shall be conducted in such a manner as the Chief may specify or approve and shall be filed in a manner acceptable to the Chief. The Chief, or his/her duly authorized representative, may at his option witness or conduct such test. Should the Chief exercise his option to conduct such test(s), the operator shall provide all the necessary sampling connections and sampling ports to be located in such manner as the Chief may require, power for test equipment, and the required safety equipment such as scaffolding, railings, and ladders to comply with generally accepted good safety practices. For any tests to be conducted by the permittee, a test protocol shall be submitted to the OAQ by the permittee at least thirty (30) days prior to the test and shall be approved by the Chief. The Chief shall be notified at least fifteen (15) days in advance of the actual dates and times during which the test will be conducted.
5. In the event the permittee should deem it necessary to suspend, for a period in excess of sixty (60) consecutive calendar days, the operations, either in whole or in part, authorized by this permit, the permittee shall notify the Chief, in writing, within two (2) calendar weeks of the passing of the sixtieth (60) day of the suspension period.

6. The provisions of this permit are severable and should any provision(s) be declared by a court of competent jurisdiction to be invalid or unenforceable, all other provisions shall remain in full force and effect.
7. The permittee shall notify the Chief, in writing, within fifteen (15) calendar days of the commencement of the construction, modification, or relocation activities authorized under this permit.
8. The permittee shall notify the Chief, in writing, at least fifteen (15) calendar days prior to actual startup of the operations authorized under this permit.
9. This permit is transferable in accordance with the requirements outlined in Section 8.1 of 45CSR13.
10. Violations of any of the conditions contained in this permit, or incorporated herein by reference, may subject the permittee to civil and/or criminal penalties for each violation and further action or remedies as provided by West Virginia Code 22-5-6 and 22-5-7.
11. On or before July 1st of each calendar year, the permittee herein shall prepare and submit an emission inventory for the previous calendar year, addressing the emissions from the facility and/or process(es) authorized herein, in accordance with the emission inventory submittal requirements of the Office of Air Quality. After the initial submittal, the Chief may, based upon the type and quantity of the pollutants emitted, establish a submittal frequency other than on an annual basis.

ISSUED BY:

Edward L. Kropp  
EDWARD L. KROPP  
WV DIVISION OF ENVIRONMENTAL PROTECTION  
OFFICE OF AIR QUALITY

DATE SIGNED:

8/16/2011

# ATTACHMENT A

## Maximum Hourly and Annual Emissions

Emission Point ID No.	Emission Source ID No.	CO			NO <sub>x</sub>			PM			SO <sub>2</sub>			VOC		
		NG lb/hr	#2 lb/hr	TPY	NG lb/hr	#2 lb/hr	TPY	NG lb/hr	#2 lb/hr	TPY	NG lb/hr	#2 lb/hr	TPY	NG lb/hr	#2 lb/hr	TPY
E-BCP1-1	BCP1-1	0.44	0.45	1.93	1.76	1.8	7.74	0.17	0.18	0.76	0.01	6.39	1.63	0.04	0.02	0.15
E-BCP1-2	BCP1-2	0.44	0.45	1.93	1.76	1.8	7.74	0.17	0.18	0.76	0.01	6.39	1.63	0.04	0.02	0.15
E-BCP1-3	BCP1-3	0.44	0.45	1.93	1.76	1.8	7.74	0.17	0.18	0.76	0.01	6.39	1.63	0.04	0.02	0.15
E-BCP2-1	BCP2-1	0.04	0.08	0.2	0.21	0.3	0.94	0.03	0.03	0.11	0.001	1.07	0.27	0.01	0.01	0.05
E-BCP2-2	BCP2-2	0.04	0.08	0.2	0.21	0.3	0.94	0.03	0.03	0.11	0.001	1.07	0.27	0.01	0.01	0.05
E-BCP2-3	BCP2-3	0.04	0.08	0.2	0.21	0.3	0.94	0.03	0.03	0.11	0.001	1.07	0.27	0.01	0.01	0.05
E-G-001	G-001	---	5.32	1.33	---	24.14	6.04	---	0.48	0.12	---	4.07	1.02	---	0.73	0.18
E-G-002	G-002	---	5.32	1.33	---	24.14	6.04	---	0.48	0.12	---	4.07	1.02	---	0.73	0.18
E-HCP1-1	HCP1-1	0.03	0.05	0.13	0.14	0.19	0.61	0.02	0.02	0.07	0.001	0.69	0.18	0.01	0.003	0.03
E-HCP1-2	HCP1-2	0.03	0.05	0.13	0.14	0.19	0.61	0.02	0.02	0.07	0.001	0.69	0.18	0.01	0.003	0.03
E-HCP1-3	HCP1-3	0.03	0.05	0.13	0.14	0.19	0.61	0.02	0.02	0.07	0.001	0.69	0.18	0.01	0.003	0.03
E-HCP2-1	HCP2-1	0.02	0.03	0.08	0.08	0.12	0.36	0.01	0.01	0.04	0.001	0.43	0.11	0.004	0.002	0.02
E-HCP2-2	HCP2-2	0.02	0.03	0.08	0.08	0.12	0.36	0.01	0.01	0.04	0.001	0.43	0.11	0.004	0.002	0.02
Total		1.57	12.44	9.6	6.49	55.39	40.67	0.68	1.13	3.14	0.04	33.45	8.5	0.19	1.56	1.09

**ATTACHMENT B**

West Virginia Division of Environmental Protection  
**Office of Air Quality**

**Policy on Regulations 2 and 10 Record Keeping and Reporting Requirements**

**I. Preamble**

This policy of the Office of Air Quality (OAQ) provides guidance and clarification for complying with the reporting and record keeping requirements of 45 CSR 2 and 45 CSR 10 as authorized by the provisions of sections 45-2-8.5 and 45-10-6.5, respectively. A review of existing practices pursuant to these sections has revealed inconsistent and inadequate reporting. All affected sources are not reporting and often an affected source may have requirements beyond those needed to establish compliance.

The guidance contained herein will provide consistency among affected sources and assure quality data for OAQ enforcement studies.

All fuel burning units having a heat input under 10 million Btu's per hour are exempt from the provisions of 45 CSR 2 and 45 CSR 10 as detailed in §45-2-11 and §45-10-9 and also from the reporting and record keeping guidance found within this policy.

**II. Policy Requirements**

In accordance with 45 CSR 2, "To Prevent and Control Particulate Air Pollution from Combustion of Fuel in Indirect Heat Exchangers", Section 8.5, and 45 CSR 10, "To Prevent and Control Air Pollution from the Emission of Sulfur Oxides", Section 6.5, the Chief of the Office of Air Quality (OAQ) adopts this policy revising the reporting guidance for fuel burning units as defined in 45 CSR 2, Section 2.9, and 45 CSR 10, Section 2.6.

45 CSR 2, Sections 8.3 - 8.5 state:

- 8.3. The operators of fuel burning units shall submit data on operating schedules and the quality of fuel used in such units. Such data shall be reported in the manner the Director may specify, and will include, but not necessarily be limited to; information such as the number of start-ups and shutdowns, the quantity of fuel burned, and the ash, sulfur, moisture, volatile matter, and B.T.U. content.
- 8.4. Within a reasonable time after the start-up or shut-down of a fuel burning unit(s), the owner and/or operator of such unit(s) shall notify the Director of the start-up or shut-down by telephone or telefax or by such other method determined by the Director. This requirement will be deemed to have been satisfied with respect to any unit for which approved continuous opacity monitoring data, including start-up and shut-

2. After receipt and consideration of written application, the Chief may approve alternatives to any record keeping and reporting requirements contained herein. Such application shall include a proposed monitoring and reporting schedule and rationale for alternative monitoring. Such alternative requirements may be approved in a variety of circumstances, such as a fuel burning unit that is infrequently operated, or the sulfur content of a fuel is so low that the limit cannot be exceeded.
3. Sources subject to the requirements of Title V (45 CSR 30, Section 5.1.c), shall retain records of all required monitoring data and support information for a period of at least five (5) years from the date of monitoring sample, measurement, report or application. Sources which are not subject to the requirements of Title V shall maintain records of all required monitoring data and support information for a period of at least two (2) years from the date of monitoring sample, measurement, report or application.
4. For purposes of this policy a fuel shipment shall be defined as any discrete, identifiable quantity of fuel for which a quality report is available. For example, a fuel shipment may be all fuel delivered from a specific lot, identified by the lot number; or fuel delivered under a specific purchase order number.

B. Requirements for Maintaining Startup/Shutdown Records

The owner or operator of a fuel burning unit(s) shall maintain records of the operating schedule for each unit. Such records shall include, but may not be limited to the date and time of start-ups and shutdowns. All such requirements, including notification by telephone, telefax, or other such method determined by the Director, shall be deemed to be satisfied when the records are maintained on site per the requirements of Section A. 3. of this policy and shall be made available upon request to the Chief or his/her duly authorized representative.

45 CSR 2, Section 9.1 provides an exemption from the applicable opacity standard during periods of start-ups, shut-downs and malfunctions. For purposes of this policy a start-up shall be considered to begin either when the burners are lit or at the start of purge (i.e., fans on) and startup shall be considered to end when minimum stable load is achieved. For the purposes of this policy a shut-down shall be considered to start with minimum stable load and end with the end of purge (i.e., fans off).

C. Requirements for Maintaining Fuel Use Records

1. The owner or operator of a fuel burning unit(s) which burns **pipeline quality natural gas, fuel oil, wood, or coal** shall record the total quantity of fuel burned in such units monthly, at a minimum, but may record it more often at the discretion of the owner or operator. Such requirement shall be deemed to be satisfied when records are

A.3. of this policy and shall be made available upon request of the Chief or his/her duly authorized representative.

3. The owner or operator of fuel burning units which burn **only wood or wood products** shall maintain records of the quality of fuel burned in such units. Such requirement will be deemed to be satisfied by an initial characterization of the fuel quality, which shall include, but may not be limited to, the sulfur, and volatile matter content, and a semi-annual analysis, once during each of the second and fourth calendar quarters, for ash, moisture and Btu content. The fuel characterization and semi-annual analysis results shall be reported on a "dry basis". Such data may be obtained from the supplier, ASTM testing or other method approved by the Chief. Fuel quality may be determined on a company wide basis for the same fuel type, i.e., green wood, bark, dry wood chips, or sander dust. Such requirement shall be deemed to be satisfied when records are maintained on site per the requirements of Section A.3. of this policy and shall be made available upon request of the Chief or his/her duly authorized representative.
4. The owner or operator of fuel burning units which burn **coal** shall maintain records on the quality of fuel burned in such units. Such requirement will be deemed to be satisfied by an initial characterization of the fuel quality, which shall include, but may not be limited to, volatile matter content, and an analysis of each shipment for the ash, sulfur, moisture and Btu content. Such data may be obtained from the supplier, ASTM testing or other method approved by the Chief. Sampling for analysis shall be conducted either on an "as received" or "as burned" basis. In the absence of an "as burned" analysis the OAQ will assume that fuel is burned "as received" and not blended on site. The requirement shall be deemed to have been satisfied when records are maintained on site per the requirements of Section A.3. of this policy and shall be made available upon request of the Chief or his/her duly authorized representative.
5. The owner or operator of fuel burning units which burn **alternative fuel(s)** shall maintain records on the quality of fuel burned in such units. The owner or operator shall submit a written application to the Chief containing a proposed monitoring and reporting schedule and rationale for such schedule. After approval of a monitoring and reporting schedule the requirement shall be deemed to be satisfied when records are maintained on site per the requirements of Section A.3. of this policy and shall be made available upon request of the Chief or his/her duly authorized representative.

E. Requirements for Submitting Reports to OAQ

1. The owner or operator of fuel burning units which burn fuel oil, wood, coal or alternative fuels for which a continuous opacity monitoring system (COMS) is required under 45 CSR 2, shall submit an opacity report. Such report shall be filed

### SUMMARY TABLE

Fuel Type	COMS Required under 45 CSR 2	SO <sub>2</sub> CEMS Required under 45 CSR 10	Startup/ Shutdown	Fuel Quality	Fuel Consumption	Excess Emissions Reports
Natural Gas	No	No	Maintain records on site 2/5 years	Initial characterization for each supplier, maintained on site 2/ 5 years	Maintain records of monthly usage on site for 2/5 years	No
Fuel Oil	No	No	Maintain records on site 2/5 years	Initial characterization for each supplier, and shipment analysis maintained on site 2/ 5 years	Maintain records of monthly usage on site for 2/5 years	No
	Yes	No	Maintain records on site 2/5 years	Initial characterization for each supplier, and shipment analysis maintained on site 2/ 5 years	Maintain records of monthly usage on site for 2/5 years	Opacity report
	No	Yes	Maintain records on site 2/5 years	Initial characterization for each supplier, and shipment analysis maintained on site 2/ 5 years	Maintain records of monthly usage on site for 2/5 years	SO <sub>2</sub> report
	Yes	Yes	Maintain records on site 2/5 years	Initial characterization for each supplier, and shipment analysis maintained on site 2/ 5 years	Maintain records of monthly usage on site for 2/5 years	Opacity and SO <sub>2</sub> report
Wood	No	No	Maintain records on site 2/5 years	Semi-annual analysis maintained on site 2/ 5 years	Maintain records of monthly usage on site for 2/5 years	No
	Yes	No	Maintain records on site 2/5 years	Semi-annual analysis maintained on site 2/ 5 years	Maintain records of monthly usage on site for 2/5 years	Opacity report
Coal	No	No	Maintain records on site 2/5 years	Analysis of each shipment maintained on site 2/5 years	Maintain records of monthly usage on site for 2/5 years	No
	Yes	No	Maintain records on site 2/5 years	Analysis of each shipment maintained on site 2/5 years	Maintain records of monthly usage on site for 2/5 years	Opacity report
	No	Yes	Maintain records on site 2/5 years	Analysis of each shipment maintained on site 2/5 years	Maintain records of monthly usage on site for 2/5 years	SO <sub>2</sub> report
	Yes	Yes	Maintain records on site 2/5 years	Analysis of each shipment maintained on site 2/5 years	Maintain records of monthly usage on site for 2/5 years	Opacity and SO <sub>2</sub> report
Alternative Fuels	Yes/No	Yes/No	Maintain records on site 2/5 years	Approved by Chief on a case by case basis	As approved by Chief on a case by case basis	As approved by Chief

# ATTACHMENT D ANNUAL FUEL USAGE REPORT<sup>(1),(2)</sup>

Federal Correctional Institution  
Permit No. R13-2170, Plant ID No. 08100148

Year \_\_\_\_\_

Month	Natural Gas scf/month	No. 2 Fuel Oil gal/month	Responsible Official's Initials <sup>(3)</sup>
January			
February			
March			
April			
May			
June			
July			
August			
September			
October			
November			
December			
Total			

- (1) The CERTIFICATION OF DATA ACCURACY statement appearing on the reverse side must be completed within fifteen (15) days of the end of the reporting period.
- (2) This record shall be maintained on site for a period of five (5) years from the date of certification. It shall be made available, upon request, to the Chief or his (her) authorized representative.
- (3) The Responsible Official shall initial and date each monthly record line thereby attesting to the accuracy and completeness of the data recorded therein. The Responsible Official shall initial and date the monthly record within fifteen (15) days of the end of the month of record.

WEST VIRGINIA DEPARTMENT  
OF ENVIRONMENTAL PROTECTION  
DIVISION OF AIR QUALITY



# TITLE V RECEIPT

Fiscal Year

July 1, 2009 - June 30, 2010

Company, Facility/Source

FEDERAL BUREAU OF PRISONS  
FCI BECKLEY (POWERHOUSE)

DAQ Company ID No. 03-54-08100148

Amount Paid: \$200.00  
Received: 7/29/2009

Mailing Information

MR. CHARLES CLEER  
FEDERAL CORRECTIONAL INSTITUTION  
P.O. BOX 1280  
BEAVER WV 25813

The Division of Air Quality hereby acknowledges receipt of payment shown, pursuant to Section 8 of 45CSR30 "Requirements For Operating Permits," for the fiscal year indicated above. Correction adjustments to the fee payment may be required subsequent to receipt being issued. Therefore, prior to the issuance of an amended receipt, this original receipt must be returned.

Division of Air Quality  
601 57th Street, SE  
Charleston, WV 25304  
Phone: 304-926-0475

**ATTACHMENT B**

**ACTIVITY-BASED  
ENVIRONMENTAL PROTOCOL**

ACTIVITY BASED ENVIRONMENTAL PROTOCOL			FINDING	COMPLIANCE STATUS	
Operation/ Activity (O/A)	O/A Level 1	O/A Level 2	Observation	In Compliance	NOT in Compliance
A. Building systems	A1. Operating cooling system (A/C)	A1.1 Personnel training	The facility currently uses the hydrochlorofluorocarbons (HCFC) R-404A [unregulated in various equipment], R-22 [regulated and unregulated smaller equipment], and R-123A [regulated in chillers]. Maintenance personnel at the facility as well as outside contractors perform the maintenance work. Facility personnel maintaining the units and involved in the handling of refrigerants have their technician certification and copies of personnel certification are maintained by the facility.	Y	
A. Building systems	A1. Operating cooling system (A/C)	A1.2 CFCs - Leaks and Recertification	Invoices from an outside contractor specifying leak repairs was available from 7/17/07, and another was located from 2008.	Y	
A. Building systems	A1. Operating cooling system (A/C)	A1.3 Maintenance records	The facility has three small recovery and recycling units and two larger York refrigerant recovery units used to service HCFC equipment. The facility has notified EPA that it has acquired certified recovery units that are in compliance with applicable requirements.	Y	
A. Building systems	A2. Operating heating system (boilers)	A2.1 Permitting boiler	The facility has three hot water boilers each with a capacity of 12.6 MBtu per hour (input) are located at Central Powerhouse 1 (CP-1), and three hot water boilers each with a capacity of 21 MBtu/hr at CP-2. The boilers are permitted by the West Virginia Department of Environmental Protection (Permit No. R13-2170, effective date 8/16/99).	Y	
A. Building systems	A2. Operating heating system (boilers)	A2.2 Boiler operations	The 12.6 MBtu/hr dual-fuel boilers are required to meet the following permit conditions: (1) Maximum Fuel Consumption Rate (@110.38 10ft3 per year or 45,000 gallons of fuel per year) and (2) Maximum Allowable Emissions [CO, NOx, PM, SO2, VOC]. The 2.1 MBtu/hr dual-fired boilers are required to meet the following permit conditions: (1) Maximum Fuel Consumption Rate (@18.4 10ft3 per year or 7,500 gallons of fuel per year) and (2) Maximum Allowable Emissions [CO, NOx, PM, SO2, VOC]. The facility tracks the total consumption rate per year of natural gas and diesel fuel and estimates emissions based on fuel consumption. Records of fuel consumption are tracked on a monthly basis. No issues were reported.	Y	
A. Building systems	A2. Operating heating system (boilers)	A2.3 Boiler emissions	The diesel fuel used by the boilers is required not to exceed 0.5% sulfur by weight. The facility keeps records from the petroleum supplier indicating that the fuel meets the required sulfur limits.	Y	
A. Building systems	A3. Operating generators	A3.1 Permitting diesel engine generators	The facility has two stationary emergency generators. The generators are permitted by the West Virginia Department of Environmental Protection (Permit No. R13-2170, effective date 8/16/99).	Y	
A. Building systems	A3. Operating generators	A3.2 Generator permit	The generators are required to meet the following permit conditions: (1) Maximum Allowable Emissions [CO, NOx, PM, SO2, VOC] based on operating hours of 500 hrs per year. The facility tracks the total hourly runs on the generators and estimates emissions based on fuel consumption. No issues were reported.	Y	
A. Building systems	A3. Operating generators	A3.3 Generator emissions	The diesel fuel used by the generators is required not to exceed 0.5% sulfur by weight. The facility keeps records from the petroleum supplier indicating that the fuel meets the required sulfur limits.	Y	
A. Building systems	A5. Other	A5. Other	Air emissions from the water-based glue used by the UNICOR factory were evaluated by a BOP industrial hygienist and determined to be negligible. On 7/17/97, the WV Department of Environmental Protection evaluated the chair gluing process and determined that no permit under 45 CSR 13 was required.	Y	
B. Maintenance functions	B3. Operating oil/water separator (floor washing, spill containment)	B3.1 Meeting local limits for sewer discharge	The garage used for vehicle maintenance has an oil/water interceptor that is inspected regularly and discharges to the sanitary sewer. The interceptor was inspected, and two pipes were noted above the current water/oil level. Original drawings for the facility were reviewed but the elevations of the pipes (draining into the interceptor, draining out of the interceptor, and draining into the used oil underground storage tank) could not be determined. It was not possible to determine if the interceptor was removing oil from the wastewater being discharged to the Beckley Wastewater Treatment Plant.		N

ACTIVITY BASED ENVIRONMENTAL PROTOCOL			FINDING	COMPLIANCE STATUS	
Operation/ Activity (O/A)	O/A Level 1	O/A Level 2	Observation	In Compliance	NOT in Compliance
C. Facility support functions	C1. Cafeteria operation	C1.1 Grease trap maintenance records	The facility has two grease traps: one for the main facility and one for the camp that discharge to the sanitary sewer system. The grease traps are inspected and maintained regularly in order to comply with Beckley Waste Water Treatment Plan requirements.	Y	
C. Facility support functions	C2. Medical unit operation	C2.1 Permit	The facility is a small large quantity generator of infectious waste (regulated medical wastes) from the Health Unit. No permit is required for small quantity generators.	Y	
C. Facility support functions	C2. Medical unit operation	C2.2 Management plan	The Health Services Unit has prepared an Infectious Disease Control Plan and Biohazard Spill Cleanup Procedures. The information in these plans meets the WV requirements for preparation of a Medical Waste Management Plan.	Y	
C. Facility support functions	C2. Medical unit operation	C2.3 Pharmaceutical waste disposal	The pharmacy at the Health Services Unit has a procedure to determine which pharmaceuticals are characteristic or listed (U- or P-listed) chemicals when discarded or no longer useable. Pharmaceutical wastes are characterized to determine if they are hazardous wastes.	Y	
C. Facility support functions	C3. Pest Management.	C3.1 Applicators	Facility personnel are applying over-the-counter pesticides. One of the facility employees is waiting for his official certification by the State of West Virginia as required.	Y	
C. Facility support functions	C3. Pest Management.	C3.2 Record Keeping	The facility maintains a record of Pesticide applications identifying the date, location, pesticide, and amount applied. The records of Pesticide application are signed by the applicator.	Y	
D. Vehicle fueling/operation	D2. Fueling pumps	D2. Fueling operations	The facility operates gasoline and diesel fuel dispensers. The facility dispenses less than 10,000 gallons of gasoline per month.	Y	
E. Stormwater management	E1. Stormwater permit	E1.1 No/Expired permit	The facility does not require a Stormwater Management Plan (General National Pollution Discharge Elimination System Water Pollution Control Permit No. WV0116025, Effective Date July 22, 2009) although preparation of one has been recommended by the WVDEP.	Y	
E. Stormwater management	E2. Complying with SWP3 requirements	E2.4 SWP3 POL storage	The facility stores oil in aboveground containers: drums and tanks. These containers have secondary containment and have adequate spill cleanup materials to respond to potential small leaks and spills.	Y	
E. Stormwater management	E3. Vehicle washing	E3.1 Outside vehicle washing	The facility washes vehicles in a garage bay which drains liquids [oils, soapy water, etc.], to the oil/water interceptor and then to the sanitary wastewater. No discharges of industrial products or soapy washwater to stormwater were noted although the facility is planning to install berms around the operation.	Y	
E. Stormwater management	E4. Other		The facility does not requires a Groundwater Protection Plan to address aboveground storage of petroleum products although preparation of one has been recommended by the WVDEP..	Y	
F. Hazardous materials	F2. Hazardous Materials	F2.1 Tier II Submission	The Tier II inventory is updated annually but only includes the diesel and gasoline storage at the facility. Rock salt storage should also be included since the facility stores over 10 tons per year.		N
F. Hazardous materials	F3. Material Safety Data Sheets	F3.1 Material Safety Data Sheets	The facility has Material Safety Data Sheets for all chemicals spot-checked during the survey	Y	
F. Hazardous materials	F3. Material Safety Data Sheets	F3.2 Chemical Inventory	The facility has an up-to-date inventory listing all Material Safety Data Sheets.	Y	
G. Waste management	G1. Generator requirements	G1.1 Characterizing wastes - Testing or Generator knowledge	In the Federal Prison Camp, the clinic previously used a standard X-ray machine. The machine was abandoned in place approximately three years ago when the main clinic in the Federal Correctional Institute switched to digital X-rays. The silver recovery unit associated with this machine was not sent for reclamation or disposal. It was not possible to determine whether the machine contained liquids used for X-ray development. In Central Plant 1 (CP-1), an old unused sandblasting machine containing used sand was observed. The sand is often contaminated with lead and chromium from the metal parts. No waste characterization was done for either process.		N

ACTIVITY BASED ENVIRONMENTAL PROTOCOL			FINDING	COMPLIANCE STATUS	
Operation/ Activity (O/A)	O/A Level 1	O/A Level 2	Observation	In Compliance	NOT in Compliance
G. Waste management	G1. Generator requirements	G1.2 Characterizing wastes - Records	The facility generates only used oil which it has determined to be a solid waste.	Y	
G. Waste management	G3. Hazardous waste	G3.3 Batteries - Disposal	The facility generates used batteries. The facility disposes of batteries either through one-to-one returns to the supplier (lead acid) or through the universal waste recycler.	Y	
G. Waste management	G1. Generator requirements	G1.3 CESQG - Determining status	The facility is a CESQG and generates less than 100 kg [approx. 220 lb.] of hazardous waste was generated in a calendar month.	Y	
G. Waste management	G3. Hazardous waste	G3.4 Fuel filters - Disposal	The facility generates waste fuel filters.	Y	
G. Waste management	G3. Hazardous waste	G3.5 Lamps (Fluorescent light tubes & HID) - Disposal	Used Fluorescent Light Tubes (FLT)s are properly stored and recycled.	Y	
G. Waste management	G3. Hazardous waste	G3.6 Oil filters - Disposal	The facility generates used oil filters which are crushed and the used oil recycled. Drained filters are disposed of to the general trash.	Y	
G. Waste management	G3. Hazardous waste	G3.8 Parts washer cleaning solutions (Aqueous-based) - Disposal	The facility uses an aqueous parts washer infrequently and has not generated any waste from this process.	Y	
G. Waste management	G3. Hazardous waste	G3.9 Shop towels, wipes, and rags - Disposal	Shop towels, wipes, and rags are disposed of in the general trash or sent to a recycler for washing. Rags are not saturated with liquids.	Y	
G. Waste management	G3. Hazardous waste	G3.10 Used spill supplies - Disposal	The facility generates used spill cleanup materials. The facility disposes of this waste in the general trash. The used absorbent is not saturated and is reported to contain principally oil drips and leaks.	Y	
G. Waste management	G4. Universal waste	G4.1 Disposal - Universal waste	The facility generates waste cathode ray tubes and used computers and recycles them other permitted UNICOR facilities.	Y	
G. Waste management	G4. Universal waste	G4.2 Storing/disposing universal wastes	Universal wastes are stored at the facility for less than 1 year and are recycled. The facility has established a system to properly label stored wastes.	Y	
G. Waste management	G4. Universal waste	G4.3 Storing universal waste - Training	Personnel that manage Universal Wastes were trained to label, date and properly close boxes containing used FLT)s.	Y	
G. Waste management	G4. Universal waste	G4.4 Disposing/recycling of universal waste - Records	Records on Universal waste recycling were maintained and were available for review.	Y	
G. Waste management	G4. Universal waste	G4.5 Transporters	The facility sends Universal Waste offsite through permitted transporters.	Y	
G. Waste management	G5. Solid waste	G5.1 Storage of solid waste	The facility solid waste dumpsters out back of Food Services are closed	Y	

ACTIVITY BASED ENVIRONMENTAL PROTOCOL			FINDING	COMPLIANCE STATUS	
Operation/ Activity (O/A)	O/A Level 1	O/A Level 2	Observation	In Compliance	NOT in Compliance
G. Waste management	G5. Solid waste	G5.2 Recycling	The facility recycled 285,184 lbs of cardboard in 2008. Additional wastes recycled included used oil, used FLT's, scrap metal, aluminum cans and used vegetable oil which is used for biodiesel at other BOP facilities.	Y	
G. Waste management	G5. Solid waste	G5.3 Scrap metal parts - Storage	Scrap metal is stored in a dumpster outdoors near the Welding Shop.	Y	
G. Waste management	G5. Solid waste	G5.4 Used tires - Registered transporter	Used tires are picked up by an authorized tire transport company, West Virginia Tire Disposal.	Y	
H. Storing bulk products/wastes	H1. SPCC requirements	H1.1 No plan	The facility has greater than the 1,320-gallons of aboveground storage of oil, and a Spill Prevention, Control and Countermeasures (SPCC) Plan is required. The SPCC Plan was final June 8, 2009; however, it requires revision and is undergoing review.	Y	
H. Storing bulk products/wastes	H1. SPCC requirements	H1.2 Noncompliance with plan	Inspections outlined in the plan are being performed).	Y	
H. Storing bulk products/wastes	H1. SPCC requirements	H1.3 PE certification	The SPCC Plan is signed by a Professional Engineer, but the facility added an emergency generator and needs to include an 80-gallon hydraulic elevator reservoir. Other revisions are required to make the plan implementable.		N
H. Storing bulk products/wastes	H1. SPCC requirements	H1.4 Plan onsite	A SPCC Plan has been prepared and is available onsite.	Y	
H. Storing bulk products/wastes	H1. SPCC requirements	H1.5 Training	Oil-handling personnel have been trained on equipment used to prevent discharges; discharge procedure protocols, rules and regulations, general facility operations, and the contents of the facility SPCC Plan.	Y	
H. Storing bulk products/wastes	H1. SPCC requirements	H1.6 Spill reporting	The facility has not discharged more than 1,000 gallons of oil during one spill and has not spilled more than 42 gallons of oil in two separate spills or had a spill of greater than 25 gallons of oil.	Y	
H. Storing bulk products/wastes	H1. SPCC requirements	H1.7 Integrity testing/inspections	Monthly/annual/inspections and integrity tests required by the SPCC plan are being performed.	Y	
H. Storing bulk products/wastes	H2. Storing products and wastes in ASTs	H2.1 ASTs - Discharges/Spill response	The AST (day tank) at the facility has appropriate secondary containment.	Y	
H. Storing bulk products/wastes	H2. Storing products and wastes in ASTs	H2.2 ASTs - Design	The aboveground storage tank at the facility meets state requirements, e.g., secondary containment.	Y	
H. Storing bulk products/wastes	H3. Storing fuel/product/wastes in USTs	H3.1 UST permit	The underground storage tanks at the facility contain gasoline, diesel, and used oil. Throughput at the gasoline does not require an air permit. All three regulated USTs are permitted by the WV DEP.	Y	
H. Storing bulk products/wastes	H3. Storing fuel/product/wastes in USTs	H3.2 UST spills - POL discharge	The facility provides appropriate spill response equipment to prevent a discharge of oil to navigable waters during loading and unloading operations.	Y	
H. Storing bulk products/wastes	H3. Storing fuel/product/wastes in USTs	H3.3 UST design-spill and overfill equipment	The underground storage tanks meet the required spill and overfill prevention requirements.	Y	
H. Storing bulk products/wastes	H3. Storing fuel/product/wastes in USTs	H3.3 UST design-Leak detection	WV DEP requirements for leak detection are complied with by the facility.	Y	

TIVITY BASED ENVIRONMENTAL PROTOCOL			FINDING	COMPLIANCE STATUS	
tivity (O/A)	O/A Level 1	O/A Level 2	Observation	In Compliance	NOT in Compliance
H. Storing bulk products/wastes	H3. Storing fuel/product/wastes in USTs	H3.3 UST design - Release detection	WV DEP requirements for release detection are complied with by the facility.	Y	
H. Storing bulk products/wastes	H3. Storing fuel/product/wastes in USTs	H3.3 UST design - Documentation	As-built drawings, installer certification, notice of intent, system repairs, initial integrity testing, corrosion protection system operation, color coding on the fill port or other required records are available in the facility files.	Y	
H. Storing bulk products/wastes	H3. Storing fuel/product/wastes in USTs	H3.3 UST design - Operations and Recordkeeping	The underground storage tanks meet all the state requirements. The facility has responded quickly to WVDEP requirements/requests for information.	Y	
H. Storing bulk products/wastes	H3. Storing fuel/product/wastes in USTs	H3.3 UST design - Repairs	Records on the repairs are available for review.	Y	
H. Storing bulk products/wastes	H3. Storing fuel/product/wastes in USTs	H3.4 UST construction	The underground storage tanks meet all the federal 1998 requirements for tank upgrades as well as more recent requirements such as PLLD testing	Y	
I. Other Activities/Operations	I1. Firing Ranges	I1. Form R	The facility has calculated the lead emissions from their active firing range and filed the Form R.	Y	

**ATTACHMENT C**

**QUALITY CONTROL (QC) RECORD**

<b>BOP ENVIRONMENTAL COMPLIANCE AUDIT QUALITY CONTROL (QC) RECORD FCI BECKLEY, WV</b>			
Name of BOP Facility: Federal Correctional Institution Beckley, WV		Address: 1600 Industrial Road Beaver, WV 25813	
Name of Contractor Performing Environmental Compliance Audit: Green Reviews, Inc.		Date of Environmental Compliance Audit: September 10-11, 2009	
Name of person from contractor's ECA team leading the contractor's Quality Control System and approving QC and Protocol Completion Record:	Printed Name: Gregory Kender	Signature:	Date Completed:  10/10/09
Name of author of Final Environmental Compliance Report: Amelia Janisz			
Name of person reviewing Final Environmental Compliance Report: Gregory Kender			
Summary of Comments (To be completed by the reviewer): See No Comments <input type="checkbox"/> See Attached <input checked="" type="checkbox"/> Below			
Name of person incorporating comments into Report: Amelia Janisz			
Comment Resolution: Note: All comments must be checked off as addressed or marked as Not Applicable (NA) on the Reports. No Action <input type="checkbox"/> Incorporated <input checked="" type="checkbox"/> Exceptions			
Name of person providing final check that comments were incorporated into Final Environmental Compliance Report:  Nilsa Benitez			